No.

9800138

THE UNIVERSALES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHAML COME;

Hornbeck Seed Co., Inc.

THECE AS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE ITLE THERETO IS, FROM THE RECORDS OF THE PLANT. VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THOUGH A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THOUGH A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THOUGH A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THOUGH A HYBRID OR DIFFERENT VARIETY THEREFROM TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFORM.

SOYBEAN

'HBK 6600'

In Testimony Mexers, I have hereunto set my hand and caused the seal of the Hant Unriety Protection Filtre to be affixed at the City of Washington, D.C. this second day of Way, in the year two thousand two.

Allast.

Que m Jahl

Commissioner Plant Varioty Protection Office Agricultural Marketing Service Socretary

EPRODUCE LOCALLY. Include form number and date on all re	productions.		FORM APPROVED - OMB NO. 0581-0055			
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.					
APPLICATION FOR PLANT VARIETY PROTECTION C		Application is required in order certificate is to be issued (7 U.S. until certificate is issued (7 U.S. C	to determine if a plant variety protection C. 2421). Information is held confidential . 2426).			
1. NAME OF APPLICANT(S) les it is to appear on the Certificate) Hornbeck Seed Co., Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 92-09507	3. VARIETY NAME			
		нвкх 9666	нвк 6600			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		6. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY			
P.O. Box 347 210 Dryer Road		(870) 946–2087	9800 1 38			
Dewitt, AR 72042		6. FAX (include area code) (870) 946-3253	F DATE N 26 February 1998			
	FAMILY NAME (Botani Leguminosae	L (cal)	FILING AND EXAMINATION FEE: F 2 450.00			
s. CROP KIND NAME (Common name) Soybean	•	2/76/1998				
10. IF THE APPUCANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION Corporation	c CERTIFICATION FEE:					
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Arkansas	1. IF INCORPORATED, GIVE STATE OF INCORPORATION Arkansas 12. Date of incorporation February 26, 1975					
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE II	N THIS APPLICATION A	ND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)			
James Thomas Hornbeck Seed Co., Inc. P.O. Box 347			15. FAX (include area code)			
Dewitt, AR 72042			İ			
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instruction). a. Exhibit A. Origin and Breeding History of the Variety.	ctions on reverse)					
b. Exhibit B. Statement of Distinctness		$((x_i)^{(i)}) = (x_i)^{(i)} $				
c. Exhibit C. Objective Description of the Variety	*		that the Alberta Commence			
d. Exhibit D. Additional Description of the Variety (Optional)			1.			
e. Exhibit E. Statement of the Basis of the Applicant's Ownership						
f. 🖾 Voucher Sample (2,600 viable untreated seeds or, for tuber propagated van			ed in an approved public repository)			
g. E Filing and Examination Fee (\$2,450), made payable to "Treasurer of the Uni						
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIED YES (If "yes," answer items 18 and 19 below)	NO (If "no," go t		n 83(a) of the Plant Variety Protection Acti			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO GENERATIONS?	NUMBER OF 19,	IF "YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?			
	☐ YES 💆 NO ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED					
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASE YES #f *yes,* give names of countries and dates}	D, USED, OFFERED FOR	3 SALE, OR MARKETED IN THE U.S. OR C	THER COUNTRIES?			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished, or for a tuber propagated variety a tissue culture will be deposited in a pu	shed with application an iblic repository and main	d will be replenished upon request in accortained for the duration of the certificate.	dance with such regulations as may be			
The undersigned applicent(s) is(are) the owner(s) of this sexually reproduced or tuber Section 42, and is entitled to protection under the provisions of Section 42 of the Plan	nt Variety Protection Ac	r, and believe(s) that the variety is new, di	stinct, uniform, and stable as required in			
Applicant(s) is(are) informed that false representation herein can jeopardize protection SIGNATURE OF APPLICANT (Owner(s))		and the state of the state of	A			
James D. Flomas		E OF APPLICANT (Office(S)) JUNELL	// 			
James Thomas	NAME (Plea	Se print or types ' JON HORNBEZ	K			
Plant Breeder 2/20/9	28 CAPACITY	OR TITLE	2/20/98_			
STD-470 (03-86) (Previous editions are to be destroyed)	e la entrega de servicio de la	(See reverse for instructions and i	nformation collection burden statement)			

EXHIBIT A

HORNBECK SEED COMPANY, INC. APPLICATION FOR HBK 6600

ORIGIN AND BREEDING HISTORY

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Summer	1989	Cross 89056 made between A6785 and DP 415				
Winter	1989-90	F ₁ advanced to F ₂ under lights in winter nursery				
Summer	1990	F ₂ advanced to F ₃ by modified single seed descent in Central America				
Fall	1990	F ₃ advanced to F ₄ by modified single seed descent in Central America				
Fall	1991	F ₄ plants pulled and threshed separately from population 89056				
Fall	1992	F ₅ rows from individual plants from population 89056 planted. Row #89-				
		9507 was identified and determined to be breeding true for characteristics				
	•	described in Exhibit "C" of this application				
Fall	1993	Yield tested at one location, 2 reps				
Fall	1994	Yield tested at 9 locations across the South. Yield increases initiated				
Fall	1995	Yield tested at 9 locations across the South. Seed increased to 2 units of				
		Breeder seed.				
Fall	1996	Continued in widescale tests across the South. Increased further.				
Fall	1997	Entered into widescale University tests as HBKX 6600. Seed increased				
		continued.				
Fall	1998	Released as HBK 6600.				

EXHIBIT B

HORNBECK SEED COMPANY, INC. APPLICATION FOR HBK 6600

NOVELTY STATEMENT

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To our knowledge, HBK 6600 most resembles A6785. Differences include but are not restricted to the following:

- 1) HBK 6600 has purple flowers whereas A6785 has white flowers.
- 2) HBK 6600 is resistant to Race 3 soybean cyst nematode whereas A6785 is susceptible
- 3) HBK 6600 is resistant to stem canker whereas A6785 is susceptible.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

EXKIBIT C

PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 2070S

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

	- Toyone max co		
NAME OF APPLICANT(S)	TEMPORARY DESIGNATIO		
Hornbeck Seed Co., Inc.	HBKX 9666	НВК 6600	
ADDRESS [Street and Na., or R.F.D. No., City, State, and Zip	Codel	FOR OFFICIAL USE ONLY	r
P.O. Box 347 210 Dryer Road Dewitt, AR 72042	t militari yapama a sila asa sake ili sila. Diselementari Sati sati sila asa sati sila a	9800138	***
Choose the appropriate response which characterizes the in your answer is fewer than the number of boxes provide Starred characters X are considered fundamental to an adwhen information is available. 1. SEED SHAPE:	ed; place a zero in the first box	when number is 9 or less (e.g. 70-1	न्त
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattener 4 = Elongate Flattener	d (LW ratio > 1.2; L/T ratio = < 1.2) I (L/T ratio > 1.2; T/W > 1.2)	
2. SEED COAT COLOR: (Mature Seed)	eranda eta errenda eta eta eta eta eta eta eta eta eta et	and the second of the second o	
1 - Yellow 2 - Green 3 - Brown	4 = Black , 5 = Other	r (Specify)	
L SEED COAT-LUSTER: (Mature Hand Shelled Seed)			
	жоу: "Свясу 17"]		
SEED SIZE: (Mature Seed)	•		
4 Grams per 100 seeds			
. HILUM COLOR: (Mature Seed)			 -
5 1 - Buff 2 - Yellow 3 - Brown	4 = Gray 5 = Imperfect BI	ack 6 = Black 7 = Other (Spec	Ξίγl
COTYLEDON COLOR: (Mature Seed)			
1 - Yellow 2 = Green		antana kana atau sa t ana n 1995 ya 1996. Bana atau sa sa sa sa tana atau sa tana atau sa tana atau sa	٠
SEED PROTEIN PEROXIDASE ACTIVITY:			
1 - Low 2 - High		e di la companya di La companya di la co	
SEED PROTEIN ELECTROPHORETIC BAND:			
1 = Type A (SP1 ^B) 2 = Type B (SP1 ^b)	•		
HYPOCOTYL COLOR:			·
1 = Green only ('Evans'; 'Davis') 2 = Green wi 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71' 4 = Dark Purple extending to unifoliate leaves ('Hodgson'	th bronze band below cotyledors () ; 'Coker Hampton 266A')	Woodworth': 'Tracγ'!	
LEAFLET SHAPE:			
3 T - Lanceolate 2 - Oval 3 - Ovate	4 - Other (Specify)		

Downy Mildew (Peronospora trifoliorum var. manshurical

Powdery Mildew (Microsphaera diffusa)

0

Brown Stem Rot (Cephalosporium gregatum)

Stem Canker (Diaporthe phaseolorum var. cautivora)

e. ÖlSÉASÉ RÉACTIO	V: -(Enter 0 = Not Tested: 1 =: Susceptible:	2 = Resistant [Continued]	
FUNGAL DISEAS	the control of the co	The Secretary	
Pod and Ster	n Blight (Disporthe phaseolorum var; sojse.		
O Purple Seed	Stain (Cercospora kikuchii)		9800138
0 Rhizoctonia	Root Rot (Rhizoctonia solani)		
Phytophthor	Rot (Phytophthors megasperms vsr., sojsc	: : :	And the second s
Race 1	Race 2 Race 3	Race 4	5 Race 6 , Race 7
Race 8	Race 9 Other (Specify)	<u> </u>	
VIRAL DISEASES:			and the state of t
Bud Blight (1	obacco Ringspot Virus)		e e e e e e la stepe de la celebra
0	c (Bean Yellow Mossic Virus)	Service of the service of	en di transportation de la companya
	ic (Cowpea Chlorotic Virus)		
i i i	lean Pod Mottle Virus)		
2 Seed Mottle (Soybean Mosaic Virus)		
NEMATODE DISEA	SES:		
Soybean Cyst	Nematode (Heterodera glycines)		
Race 1	0 Race 2 2 Race 3	Race 4 1 Other	(Specify) Race 14
0 Lance Nemate	ode (Hoplolsimus Colombus)	ţ	
2 Southern Roo	t Knot Nematode (Meloidogyne incognita)		
0 Northern Roo	t Knot Nematode (Meloidogyne Hapla)		
0 Peanut Root I	Cnot Nematode (Meloidogyne arenaria)		
Reniform Ner	natode (flatylenchulus reniformis)		
OTHER DISE	ASE NOT ON FORM (Specify):		
*	-		
	SPONSES: (Enter 0 = Not Tested; 1 = Susc	oeptible; 2 = Resistanti	
	on Calcareous Soit		
	<u> </u>		· · · · · · · · · · · · · · · · · · ·
	(Enter 0 = Not Texted; 1 = Susceptible; 2 =	Resistant	
Mexican Bean	Beetle (Epilachna varivestis)		•
O Potato Leaf H	opper (Empoasca (abac)		. •
Other (Specif)	1	<u> </u>	· · · · · · · · · · · · · · · · · · ·
INDICATE WHICH VA	RIETY MOST CLOSELY RESEMBLES TO	HAT SUBMITTED.	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape	A6785	Seed Coat Luster	A6785
Leaf Shape	A6785	Seed Size	DP 3640
Leaf Color	A6785	Seed Shape	A6785
Leaf Size	A6785	Seedling Pigmentation	DP 3640

21 GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paled Comparison Data

VARIETY	NO. OF PLANT		CM LEAFI	ET SIZE	SEED CONTENT		SEEO SIZE	NO.	
	MATURITY		HEIGHT	CM Might.	CM Length	% Protein	* 071	2G932	POD SEEDS/
HBK 6600	137 0030	1.3	64					13.3	
DP 3640 Name of Similar Variety	138	1.5	71					13.7	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell B.E. ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell, 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3: Hymowitt, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection, Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morrit. 1976. Differentiation of soybean cultivars by seeding pigmentation patterns. J. Seed Technol. 1: 1-19.

EXHIBIT D

HORNBECK SEED COMPANY, INC. APPLICATION FOR HBK 6600

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ADDITIONAL DESCRIPTION OF VARIETY

HBK 6600 is an F₄ selection composited in the F₅ generation from the cross A6785 and DP 415. Plants are medium tall with purple flowers, grey pubescence and tan pods. Seeds are dull yellow with imperfect black hila averaging about 3400 seed per pound. HBK 6600 is resistant to Race 3 soybean cyst nematode, stem canker and frogeye leaf spot. It is moderately resistant to aerial web blight and field tolerant to phytophthora root rot.

REPRODUCE LOCALLY. Include form number and edition date on a	ill reproductions.	ORM APPROVED - OMB No. 0581-00	
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued	421). The information is held	
1 NAME OF APPLICANT(S) Hornbeck Seed Co., Inc.	2 TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER HBK X9666	3, VARIETY NAME HBK 6600	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZiP, and Country)	5. TELEPHONE (linguage area code)	62 FAX (Include aréa code)	
P.O. Box 472 210 Drier Road	870-946-2087	870-946-3253	
DeWitt, Arkansas 72042	7. PVPO NUMBER 9800138		
9. Is the applicant (individual or company) a U.S. National or a U.S.	based company? If no, give name of c	ountry X YES NO	
10. Is the applicant the original owner? YES X NO	If no, please answer <u>one</u> of the fol	lowing:	
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	al(s)?	
YES NO	If no, give name of country		
b. If the original rights to variety were owned by a company(ies)), is (are) the original owner(s) a U.S. ba	sed company?	
X YES NO	If no, give name of country		
11. Additional explanation on ownership (If needed, use the reverse Although, Hornbeck Seed Co., Inc. obreeder and company would have been Variety Protection Certificate bein Co., Inc. is therefore eligible to through our purchase of the variety PLEASE NOTE:	did not develop HBK 6 n eligible to apply a ng a U.S. based compa apply and receive pr	nd receive a Plant ny. Hornbeck Seed otection for HBK 660	
Plant variety protection can only be afforded to the owners (not licens			
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o 	erson must be a U.S. national, national of the U.S. for the same genus and speci-	of a UPOV member country, or es.	
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by o nationals of the U.S. for the same	
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.	
The original breeder/owner may be the individual or company who dis Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection	
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor,	and a person is not required to respond to a collection	n of information unless it displays a valid OMB	

response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information collection is 9581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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